

U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460

NOTICE OF PESTICIDE:

X Registration
Reregistration
(under FIFRA, as amended)

EPA Reg. Number:	Date of Issuance:
5905-626	2/3/20

Oink
Term of Issuance:
Conditional

Name of Pesticide Product:

OMNI BRAND BIFENTHRIN 2EC

Name and Address of Registrant (include ZIP Code):

Helena Agri-Enterprises d/b/a Helena Chemical Company c/o Maryanne Geisbush
Pyxis Regulatory Consulting, Inc.
4110 136th Street Ct. NW
Gig Harbor, WA 98332

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/registration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:	Date:
Jel Herrick	2/3/20
Jacquelyn Herrick, Product Manager 03 Invertebrate-Vertebrate Branch 1, Registration Division (7505P)	

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EPA Form 8570-6

- 2. You are required to comply with the data requirements described in the DCI Order identified below:
 - Bifenthrin GDCI-128825

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI Order listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division:

http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1

- 3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 5905-626."
- 4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 01/30/2020
- Alternate CSF 1 dated 01/30/2020

If you have any questions, you may contact Dr. Breeden-Alemi at 703-347-0511 or via email at Breeden-Alemi.Julie@epa.gov.

Enclosure

RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms

For retail sale to and use only by certified applicators or persons under their direct supervision and only for the uses covered by the certified applicator's certification.

BIFENTHRIN GROUP 3A INSECTICIDE

OMNI BRAND BIFENTHRIN 2EC

Bracketed [] text optional language

[Insecticide/Miticide]

[For use to control listed insects and mites on artichokes, brassicas, caneberries, canola, cilantro, citrus, coriander, corn, cotton, crambe, cucurbits, dried beans and peas, fruiting vegetables, grapes, head lettuce, hops, leafy brassicas, mayhaw, okra, peanuts, pears, rapeseed, root crops, soybeans, spinach, succulent peas and beans, tobacco, and tuberous and corm vegetables.]

[For use to control listed insect pests on Ornamentals and Trees* (Field and Container Grown Nursery Stock, Christmas Trees, Interiorscapes and Plantscapes, Lawns, Trees and Shrubs, and on Golf Courses and Sod Farms)

* Not For Use in California]

IDO NOT APPLY THIS PRODUCT ON GOLF COURSES AND SOD FARMS IN NASSAU OR SUFFOLK COUNTY, NEW YORKI.

ACTIVE INGREDIENT:	%BY WT.
Bifenthrin: (2 methyl[1,1 -biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-	
trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate*	25.0%
OTHER INGREDIENTS**:	75.0%
TOTAL	100.0%

^{*}Cis isomers 97% minimum, trans isomers 3% maximum.

This product contains 2 pounds active ingredient per gallon.

WARNING-AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

[See [side] [other] [inside label booklet] [panel] for additional precautionary statements.]

EPA Reg. No. 5905-

EPA Est. No. XXXXX-XX-XXX

Net Contents:

[Batch][Lot] [Number]

Manufactured For:

Helena Agri-Enterprises, LLC d/b/a Helena Chemical Company 225 Schilling Blvd., Suite 300 Collierville, Tennessee 38017

ACCEPTED

02/03/2020

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 5905-626

^{**}Contains xylene range aromatic solvents.

FIRST AID						
IF SWALLOWED:	 Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. 					
	 Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. 					
 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. 						
IF ON SKIN OR CLOTHING:	 Call a poison control center or doctor for treatment advice. Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. 					
IF INHALED:	 Call a poison control center or doctor for treatment advice. Move person to fresh air. 					
	 If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. 					
Have the product con	tainer or label with you when calling a poison control center or doctor or going for treatment.					

Have the product container or label with you when calling a poison control center or doctor or going for treatment. Contact ChemTrec at 1-800-424-9300, collect day or night, for emergency treatment information.

NOTE TO PHYSICIAN: This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and should be avoided. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING-AVISO

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if inhaled or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

Handlers who may be exposed to the dilute through application or other tasks must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves (barrier laminateor viton ≥ 14 mils)
- Shoes plus socks
- Protective evewear

Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves (barrier laminateor viton ≥ 14 mils)
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees and other pollinating insects exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging the treatment area.

The use of Omni Brand Bifenthrin 2EC is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

PHYSICAL/CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves (barrier laminate or Viton ≥ 14 mils)
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protections Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and greenhouses.

Do not allow people or pets on treated areas until the spray has dried.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE AND SPILL PROCEDURES: Keep out of reach of children and animals. Store in original containers only, in a cool, dry place and avoid excess heat. Do not freeze. Do not store below 40° F. Carefully open containers. If crystals are observed, warm material to above 60°F by placing container in warm location. Shake or roll container periodically to redissolve solids. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

In case of spill, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spills. **To confine spill**: If liquid, dike surrounding area or absorb with sand, cat litter, or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

Containers 5 gallons or less: Empty the remaining contents into application equipment and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Once cleaned, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

Containers larger than 5 gallons: Empty the remaining contents into application equipment. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Once cleaned, offer for recycling or reconditioning if appropriate. If recycling is not available, puncture or dispose of in a sanitary-landfill or incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable Containers: Return container to point of purchase for reuse with seal intact and in salable condition. Refill this container with Omni Brand Bifenthrin 2EC only. Do not reuse this container for any other purpose. Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices.

After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container.

RESISTANCE MANAGEMENT

Omni Brand Bifenthrin 2EC contains a Group 3 Insecticide. With repeated use of Group 3 insecticide as the primary method of control in the same field or in successive years, insect/mite populations can develop resistant biotypes. If this occurs, insect/mite biotypes with acquired resistance to Group 3 insecticides may eventually dominate the insect/mite population. This may result in partial or total loss of control of those species by Omni Brand Bifenthrin 2EC or other Group 3 insecticides.

To delay development of insecticide resistance, the following practices are suggested:

- Base insecticide applications on comprehensive IPM programs. This program should include an insect management program that includes cultural and biological control where possible.
- Use good resistance management strategies established for the use area. This may include the use of insecticide rotations or tank mixes with other groups of insecticide and miticides in an IPM program.
- Always apply Omni Brand Bifenthrin 2EC at the labeled rates and according to label directions. Do not use less than label rates alone or in tank mixtures unless directed otherwise in supplemental labeling supplied by Helena Agri-Enterprises, LLC d/b/a Helena Chemical Company.

- Monitor treated populations in the field for loss of control. If poor performance cannot be attributed to improper
 application or extreme weather conditions, a resistant strain may be present. Immediately consult your local
 Helena Agri-Enterprises, LLC d/b/a Helena Chemical Company representative or agricultural advisor for the best
 alternative method of control for your area.
- Do not treat seedling plants grown for transplant in greenhouses, shade houses, or field plots.
- Consult your local extension specialist, certified crop advisor, and/or manufacturer for insecticide resistance management and /or IPM guidance for the specific site and resistant pest problems.

APPLICATIONS INSTRUCTIONS

The rate of Omni Brand Bifenthrin 2EC applied will vary according to pest pressure and timing of application. Use lower rates under light to moderate infestations and higher rates under heavy insect pressure and for mite control. Arid climates generally require higher rates.

Unless otherwise specified for a specific crop, apply when pest population reaches economic (damaging) threshold and repeat as necessary to maintain control. Thorough coverage is essential to achieve control.

In the COMMENTS section of the label for each crop, the application rate when applied by ground and/or air is listed as an amount of spray per acre. In all cases, this refers to finished spray per acre.

CHEMIGATION USE DIRECTIONS

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. Contact your State Agricultural Extension Service specialists, equipment manufacturers, or other experts for consultation on the suitability of the equipment setup to obtain effective control of the target insect pests.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent area.

The system must contain a functional check valve, vacuum- relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

For sprinkler irrigation, meter Omni Brand Bifenthrin 2EC at a continuous uniform rate during the entire irrigation period. To ensure accurate application over the treated area, apply in sufficient volume of water or other diluent. If non-

emulsified oil is used as the diluent, use 1 to 2 pints per acre. Maintain continuous agitation of the pesticide supply tank for the duration of the application period. When chemigation systems are used, 0.5 inch per acre of irrigation water is suggested except that for Low Energy Precision Application (LEPA) irrigation, a minimum of 0.75 inch of water per acre is suggested.

BUFFER ZONES Vegetative Buffer Strip

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries; and commercial fish farm ponds).

Only apply products containing bifenthrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers:

• Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp.

http://www.in.nrcs. usda.gov/technical/agronomy/newconbuf.pdf.

Buffer Zone for Ground Application (ground boom, overhead chemigation, or airblast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds.)

Buffer Zone for ULV Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

SPRAY DRIFT REQUIREMENTS

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition. Do not apply when wind velocity exceeds 15 mph.

Temperature Inversions

Do not make aerial or ground applications into temperature inversions.

Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Droplet size

Use only Medium or coarse spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, use a coarser droplet size.

Additional Requirements for Ground Application

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy. For airblast applications, turn off outward-pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Application

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

In New York State, this product may not be applied within100 feet (using ground equipment) to 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

ROTATIONAL CROPS

If applying to crops for which Bifenthrin tolerances exist, the crops may be rotated at any time. All other crops may be rotated 30 days following the final application of Omni Brand Bifenthrin 2EC.

MIXING INSTRUCTIONS

The spray tank must be clean, thoroughly rinsed, and decontaminated before adding either Omni Brand Bifenthrin 2EC alone or with tank mix combinations (see **Omni Brand Bifenthrin 2EC in Tank Mixtures** section below). If water is used as the carrier, use clean water.

For aerial applications made on brassicas (see **CROPS** section of the label below for full list of approved brassicas), canola, crambe, rapeseed, foliar applications on corn, cucurbits (see **CROPS** section of the label below for full list of approved cucurbits), eggplant, grapes, head lettuce, and succulent peas and beans (see **CROPS** section of the label below for full list of approved succulent peas and beans), 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. For aerial applications made on cotton, 1 quart of emulsified oil may be substituted for one quart of water in the finished spray. Thorough coverage is essential to achieve control.

Omni Brand Bifenthrin 2EC Used Alone: When Omni Brand Bifenthrin 2EC is used alone, add the labeled amount to the spray tank when the tank is half filled with water or other carrier; then add the rest of the water or other carrier (as permitted on this label). Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

Omni Brand Bifenthrin 2EC with Fertilizer: Fill the spray tank approximately one-half full with water and/or liquid fertilizer, add the proper amount of Omni Brand Bifenthrin 2EC, and then add the rest of the water and/or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture.

Perform a jar compatibility test with the appropriate ratio of Omni Brand Bifenthrin 2EC and fertilizer to ensure the mixture will stay in solution. Maintain constant agitation during mixing and application.

Omni Brand Bifenthrin 2EC in Tank Mixtures: If a tank mixture is used, perform a compatibility test before actual tank mixing. Test all untried mixtures using proper ratios and mixing sequences of all ingredients to be included in the mixture. Once compatibility is confirmed for the tank mix, fill the tank half full with water or other carrier. Start and continue agitation throughout mixing following conventional mixing order practices. Omni Brand Bifenthrin 2EC may be applied in tank mixtures with other products approved for use on registered crops. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

FOOD CROPS USE INSTRUCTIONS

ARTICHOKE

	DOS	AGE	
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Artichoke Plume Moth Cribrate Weevil	0.10	6.4	Repeat as necessary to maintain control, but not apply more often than 15 day intervals.
			Ground Application: Apply in water in a minimum of 75 gallons per acre as a full cover spray.
			Air Application: Apply in water in a minimum of 10 gallons per acre.

RESTRICTIONS:

- Do not apply more than 0.5 lb. active ingredient (32 ounces formulated) per acre per season.
- Do not apply within 5 days of harvest (PHI).

BRASSICAS

		DOS	AGE	
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Head and Stem	Aphids	0.033-0.10	2.1-6.4	Ground Application: Apply in water in a minimum
Brassica	Armyworms			of 10 gallons per acre.
Vegetables	Corn Earworm			Air Application: Apply in water in a minimum of 2
	Crickets			gallons per acre. Emulsified oil may be substituted
Broccoli	Cucumber Beetle			for water.
Chinese Broccoli	Cutworms			
(gai lon, white	Diamondback Moth			See section entitled MIXING INSTRUCTIONS for
flowering	Flea Beetle			details on the amount of oil to use in the spray tank
broccoli)	Ground Beetles			in lieu of water.
Brussels Sprouts	Imported			
Cauliflower	Cabbageworm			Repeat applications if needed to maintain control,
Cavalo Broccolo	Leafhoppers			but do not make applications less than 7 days
Kohlrabi	Loopers			apart.
Cabbage	Saltmarsh			
Chinese Cabbage	Caterpillar			
(napa)	Stink Bugs			
Chinese Mustard	Thrips			
Cabbage (gai	Tobacco Budworm			
choy)	Whitefly			
	Wireworm (Adults)			
	Banks Grass Mite	0.08-0.10	5.12-6.4	
	Carmine Mite	3.00 00	3 3	
	Lygus Spp.			
	Pacific Spider Mite			
	Twospotted Spider			
	Mite			

- Do not apply more than 0.5 lb active ingredient (32 ounces formulated) per acre per season.
- Do not make more than 5 applications after bloom.
- Do not apply within 7 days of harvest (PHI).

CANEBERRIES

		DO	SAGE	
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Caneberries Blackberry Bingleberry Black satin berry Boysenberry Cherokee blackberry Chesterberry Cheyenne blackberry	Leafrollers Orange Tortrix Root Weevils	0.05-0.10	3.2-6.4	Apply by air or ground equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons per acre by air and 50 gallons per acre by ground). Ground Application: Apply in water in a minimum of 50 gallons per acre. Air Application: Apply in water in a minimum of 10 gallons per acre.
Coryberry	Spider Mites	0.10	6.4	A total of two applications may be made.
Darrowberry Dewberry Dirksen thornless berry Himalayaberry Hullberry Lavacaberry Loganberry Lowberries Lucretiaberry Mammoth blackberry Marionberry Nectarberry Olallieberry Oregon evergreen berry Phenomenalberry Rangeberry Ravenberry Rossberry	Opider Willes	0.10	0.4	One application may be made pre-bloom and a second application may be made post bloom.
Shawnee blackberry Raspberry				
Youngberry Varieties and/or hybrids of these				

- Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) per acre per season. Do not apply within 3 days of harvest (PHI).

CANOLA CRAMBE RAPESEED

	DOSA	AGE	
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Aphids	0.033-0.04	2.1-2.6	Ground Application: Apply in water in a minimum of 10 gallons
Armyworms			per acre.
Cutworms			
Diamondback Moth			Air Application: Apply in water in a minimum of 2 gallons per
Flea Beetles			acre. Emulsified oil may be substituted for water.
Flea Hoppers			
Grasshoppers			See section entitled MIXING INSTRUCTIONS for details on the
Loopers			amount of oil to use in the spray tank in lieu of water.
Lygus Bugs			
Other			Repeat applications if needed to maintain control, but do not
Lepidopterous Larvae			make applications less than 14 days apart.
Plant Bugs			
Seedpod Weevil			
Stink Bugs			
Thrips			
Whitefly			

RESTRICTIONS:

- Do not apply more than 0.08 lb. active ingredient (5.12 ounces formulated) per acre per season.
 Do not apply within 35 days of harvest (PHI).

CHRISTMAS TREES (For use only in Washington and Oregon)

Spruce Spider Mite Air Application: Apply in water in a minimum of 5 gallons per acre. Omni Brand Bifenthrin 2EC is usually not phytotoxic to Christmas trees. However, make applications to a small		DOSA	AGE	
Spruce Spider Mite Air Application: Apply in water in a minimum of 5 gallons per acre. Omni Brand Bifenthrin 2EC is usually not phytotoxic to Christmas trees. However, make applications to a small representative group of plants to ensure that a particular variet grown under current conditions is not unusually sensitive to	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Maintain a minimum of 21 days between applications.		0.06-0.10	3.9-6.4	Air Application: Apply in water in a minimum of 5 gallons per acre. Omni Brand Bifenthrin 2EC is usually not phytotoxic to Christmas trees. However, make applications to a small representative group of plants to ensure that a particular variety grown under current conditions is not unusually sensitive to Omni Brand Bifenthrin 2EC.

RESTRICTIONS:

- Do not apply more than 0.1 lb. active ingredient (6.4 ounces formulated) per acre per season.
- Do not make more than 3 applications in a crop year.
- Do not make applications through irrigation systems.

CILANTRO. CORIANDER

	DOSA	AGE	
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Aphids	0.033-0.10	2.1-6.4	Ground Application: Apply in water in a minimum of 10 gallons
Beet Armyworm	_		per acre.
Cabbage Looper			
Cutworm			Air Application: Apply in water in a minimum of 2 gallons per
Flea Beetle			acre.
Grasshoppers			
Leafminer			Apply in sufficient water to obtain thorough coverage.
Saltmarsh caterpillar			
Spotted Cucumber			

Beetle			
Thrips			
Whitefly			
Two Spotted Spider Mite	0.08-0.1 <u>0</u>	5.12-6.4	

RESTRICTIONS:

- Do not apply more than 0.5 lb. active ingredient (32 ounces formulated) per acre per season.
- Do not make applications less than 7 days apart.
- Do not apply within 3 days of harvest (PHI).

CITRUS (Except Florida)*

	DOSAGE			
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS	
Asian Cockroach Diaprepes Root Weevil (Diaprepes abbreviatus)	0.25 - 0.50	16-32	Ground Application: Apply in water in a minimum of 30 gallons per acre.	
, , ,			Use a handgun or shielded sprayer to apply to individual citrus trees if they are not planted in solid rows.	
			Diaprepes root weevil emergence generally occurs in the spring, but weather conditions can prompt a second emergence in the fall. In areas where only a spring emergence is expected, use 32 ounces of Omni Brand Bifenthrin 2EC. In areas where a second emergence is expected, use 16 ounces of Omni Brand Bifenthrin 2EC in the early season and 16 ounces of Omni Brand Bifenthrin 2EC later in the season.	
			If the length of control of Omni Brand Bifenthrin 2EC is not sufficient to cover the emergence of the root weevil, use other pest control measures from State Agricultural Extension Specialists or other local experts.	
			*This product must be used in accordance with the directions for use on this label, or exemptions under FIFRA (Special Local Need Registrations, FIFRA Section 18 exemptions).	

- Do not apply through irrigation systems.

 Do not allow any application of Omni Brand Bifenthrin 2EC to contact fruit or foliage.

 Do not apply more than 0.5 lb. active ingredient (32 ounces formulated) per acre per year.
- Do not apply by air.
- Do not apply within 1 day of harvest (PHI).

CITRUS (Florida only)

CITROS (Florida offiy)	DOSAGE		
PEST	LB Al/A	FL OZ/A	APPLICATION INSTRUCTIONS
Blue Green Citrus Root Weevil (Pachnaeus opalus) Brown Leaf Notcher (Epicaerus mexicanus) Diaprepes Root Weevil (Diaprepes abbreviatus) Little Leaf Notcher (Artipus	0.25-0.50	16-32	Ground Application: Apply in water in a minimum of 40 gallons per acre. Greater spray volumes increase uniformity of coverage. Also coverage uniformity may be aided by using a pre-and post-irrigation application.
floridanus) Southern Blue Green Citrus Root Weevil (Pachnaeus			Use a handgun or shielded sprayer to apply to individual citrus trees if they are not planted in solid rows.
Litus) Asian Cockroach	0.1-0.25	6.4-16	All citrus root weevils have a similar life cycle. They have three immature stages: egg, larva, and pupa. Adult weevils emerge from the soil and lay eggs on host plants above ground, the larvae enter the soil to feed on roots, and the pupae and teneral adult stages are spent below ground. Adults emerge beneath citrus trees throughout the year; it is at this time that Omni Brand Bifenthrin 2EC applications should be timed. Peak adult emergence varies within and among species and by region. Peak emergence for the blue-green root weevil is normally April and May. Diaprepes adult emergence from the soil appears to be triggered by the onset of
			regular rainfall events and can have two emergence peaks, in mid-May to mid-July and/or late-August to mid-October. The second peak is variable and may relate to host plant availability. Little leaf notcher has three generations per year. Although there is considerable overlap of generations, adults appear most abundant in April/May, July/August, and October/November. For best control of emerging root weevils, apply Omni Brand Bifenthrin 2EC to the soil beneath the citrus trees from the trunk to
			the drip line of the tree. Omni Brand Bifenthrin 2EC protects citrus tree roots from citrus root weevils by forming a barrier which provides contact activity on neonate larvae when they fall to the ground shortly after hatching from eggs which were oviposited in the citrus tree foliage.
			Once application is made, be careful not to disturb the treated soil. In areas where only a spring emergence is expected, use 32 ounces of Omni Brand Bifenthrin 2EC. In areas where a second emergence is expected, use 16 ounces of Omni Brand Bifenthrin 2EC in the early season and 16 ounces of Omni Brand Bifenthrin 2EC later in the season.
DESTRICTIONS:			If the length of control of Omni Brand Bifenthrin 2EC is not sufficient to cover the emergence of the root weevil, use other pest control measures from State Agricultural Extension Specialists or other local experts.

- Do not apply through irrigation systems.

 Do not allow any application of Omni Brand Bifenthrin 2EC to contact fruit or foliage.

 Do not apply more than 0.5 lb. active ingredient (32 ounces formulated) per acre per year.
- Do not apply by air.
- Do not apply within 1 day of harvest (PHI).

CONIFER SEED ORCHARDS

(For Use Only in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Oklahoma, South Carolina,

Tennessee, Texas, Virginia)

	DOSAGE					
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS			
Cone Worms Seed Bugs Seed Worms	0.1-0.2	6.4-12.8	Ground Application: Apply in water in a minimum of 100-500 gallons per acre			
			Air Application: Apply in water in a minimum of 10 gallons per acre or 0.5 gallon refined vegetable oil per acre.			
			Apply in sufficient water to obtain thorough coverage.			
			Begin applications 7 days after peak pollen flight and continue on 30-day intervals up to a maximum of 0.6 lb. active per acre per season.			

RESTRICTIONS:

CORN: FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (AT PLANTING)

PEST	DOSAGE		APPLICATION INSTRUCTIONS
Corn Rootworm Larvae	0.0046	0.30 fluid	Ground Application: Apply in water in a minimum of 3 gallons per
Northern	pound	ounces per	acre.
Southern	active	1000 linear	
Western	per 1000	feet of row	For use on corn at planting, apply a 5- inch to 7 inch T-band over the
	linear feet of		open seed furrow.
	row		
Army Cutworm	0.0023 to	0.15 to 0.30	Center the spray nozzle over the row behind the planter shoe in front
Cutworm Species	0.0046	fluid ounces	of the press wheel.
Grubs	pound active	per 1000	
Seedcorn Beetle	per 1000	linear feet of	In-furrow pop-up fertilizers may be used alone or in tank
Seedcorn Maggot	linear feet of	row	mixtures with Omni Brand Bifenthrin 2EC. See the section
True Armyworm or	row		entitled MIXING INSTRUCTIONS, Omni Brand Bifenthrin 2EC with Fertilizer for additional instructions and precautions
Armyworm Species			when mixing with fertilizers.
Wireworms			Whom mixing war for all 2010.

RESTRICTIONS:

- Do not apply to soil where there is greater than 30% cover of crop residue remaining.
- Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment.
- Do not apply more than 0.1 lb. active ingredient (6.4 ounces formulated) per acre per season as an at plant application.

Do not apply within 30 days of harvest (PHI).

Row Spacings (inches) ¹	40 38		36	30
Omni Brand Bifenthrin 2EC (pounds ai per acre)	0.060	0.064	0.069	0.080
Omni Brand Bifenthrin 2EC (formulated ounces per acre)	3.9	4.1	4.4	5.12

¹Use this table to determine the Omni Brand Bifenthrin 2EC needs per acre.

[•] Do not make more than six applications per season or apply more than 0.6 lb. active ingredient (38.4 ounces formulated) per acre per season.

CORN: FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (PRE & PPI)

	DOSAGE				
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS		
Armyworm spp.	0.047 to 0.062	3 to 4	Ground Application: Apply in water in a minimum of 3 gallons per		
Black Cutworm	Pre-Plant	Pre-Plant	acre.		
Seedcorn Maggot Stalkborer White Grub Wireworm	Incorporated (PPI)	Incorporated (PPI)	Use the labeled dosage as a preplant incorporated treatment either alone or in tank mix combination with registered preplant incorporated herbicides.		
Black Cutworm Armyworm spp.	0.040 lb/ai per acre Pre-	2.56 fl. oz. per acre	Incorporate Omni Brand Bifenthrin 2EC to the intended planting depth, but no deeper than 3 inches.		
Stalkborer	emergence (PRE)	Pre- emergence (PRE)	The 3 to 4 oz. rate must be applied as PPI and can be tank mixed and applied with PPI herbicides.		
			The 2.56 oz. rate may be applied PRE and can be tank mixed and applied with PRE herbicides.		

CORN: FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (FOLIAR)

PEST						
1 =01	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS			
Aphids	0.033-0.10	2.1-6.4	Ground Application: Apply in water in a minimum of 10 gallons per			
Army Cutworm			acre except see specific comment below for TX, NM, OK, and AZ mite			
Beet Armyworm			control.			
Cereal Leaf Beetle						
Chinch Bug			Air Application: Apply in water in a minimum of 2 to 5 gallons per acre			
Common Stalk Borer			except see specific comment below for TX, NM, OK, and AZ mite			
Corn Earworm			control.			
Corn Rootworm Adult						
Cucumber Beetle Adult			In all states, insect control will be improved by increasing the finished			
Cutworm Species			spray per acre to 5 gallons.			
European Corn Borer						
Fall Armyworm			In Texas, New Mexico, Oklahoma, and Arizona, use a minimum of 10			
Flea Beetle			gallons of water per acre by ground and 5 gallons of water per acre by			
Grasshoppers			air when making applications to control mites.			
Greenbug			Emulsified oil may be substituted for water. See section entitled MIXING			
Japanese Beetle Adult			INSTRUCTIONS for details on the amount of oil to use in the spray tank			
Sap Beetle			in lieu of water.			
Southern Armyworm						
Southern Corn Leaf			Make applications of Omni Brand Bifenthrin 2EC as necessary to			
Beetle			maintain control being careful not to exceed reapplication intervals or			
Southwestern Corn Borer			maximum dosage rates specified in this section.			
Stink Bugs			For pests which attack the ear, apply just before silking.			
Tarnished Plant Bug			For corn borer control, make application just before or at egg hatch.			
True Armyworm or						
Armyworm			For mite control, apply when colonies first form prior to leaf damage and			
Species			before they disperse into the canopy (for Banks Grass Mite-before			
Webworms			dispersal into the upper 2/3 of the plant).			
Western Bean Cutworm			Use higher rates of Omni Brand Bifenthrin 2EC when pest pressure is			
Yellowstriped Armyworm			severe or crop is under stress from drought and/or heat. When these			
Banks Grass Mite	0.08-0.10	5.12-6.4	conditions exist, tank mixtures with dimethoate have shown good			
Carmine Mite			control.			
Twospotted Spider Mite			Apply for Banks Grass Mite control when colonies first form prior to			

	DOSAGE		
PEST	LB Al/A	FL OZ/A	APPLICATION INSTRUCTIONS
			leaf damage or discoloration and before dispersal above the bottom third of the plant.
			For Twospotted Spider Mite and Carmine Mite control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy. Higher rates will be necessary for heavier initial populations and corn under heat or drought stress. Field experience with dimethoate at 0.5 lb. active per acre in tank mixture has demonstrated good control under these conditions.
			For Mite Control In Texas, New Mexico, Oklahoma, and Arizona:
			Apply in a minimum of 5 gallons of finished spray per acre by aircraft or
			in a minimum of 10 gallons per acre with ground equipment.

Restrictions:

- Do not apply more than 0.3 lb. active ingredient (19.2 ounces formulated) per acre per season including PRE and PPI, atplanting, plus foliar applications.
- Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application.
- Use of ultra low volume (ULV) application on corn is prohibited.
- Do not make aerial or ground applications to corn if heavy rainfall is imminent.
- Do not apply within 30 days of harvest (PHI).

CORN: SWEET CORN, SWEET CORN GROWN FOR SEED

(AT PLANTING)	1		
PEST	DOSAGE		APPLICATION INSTRUCTIONS
Corn Rootworm Larvae Northern Southern Western	0.0046 pound active per 1,000 linear feet of row	0.30 fluid ounces per 1,000 linear feet of row	Ground Application: Apply in water in a minimum of 3 gallons per acre. For use on corn at planting, apply in a 5- inch to 7-inch T-band over the open seed furrow. Center the spray nozzle over the row behind the planter shoe in front of the press wheel.
Army Cutworm Cutworm Species Grubs Seedcorn Beetle Seedcorn Maggot True Armyworm or Armyworm Species Wireworms	0.0023 to 0.0046 pound active per 1,000 linear feet of row	0.15 to 0.30 fluid ounces per 1,000 linear feet of row	In-furrow pop-up fertilizers may be used alone or in tank mixtures with Omni Brand Bifenthrin 2EC. See the section entitled MIXING INSTRUCTIONS, Omni Brand Bifenthrin 2EC with Fertilizer for additional instructions and precautions when mixing with fertilizers.

- Do not apply to soil where there is greater than 30% cover of crop residue remaining.
- Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment.
- Do not apply more than 0.1 lb. active ingredient (6.4 ounces formulated) per acre per season as an at plant application.
- Do not apply within 30 days of harvest (PHI).

Row Spacings (inches) ¹	40	38	36	30
Omni Brand Bifenthrin 2EC (pounds ai per acre)	0.060	0.064	0.069	0.080
Omni Brand Bifenthrin 2EC (formulated ounces per	3.9	4.1	4.4	5.12
acre)				

¹Use this table to determine the Omni Brand Bifenthrin 2EC needs per acre.

CORN: SWEET CORN, SWEET CORN GROWN FOR SEED (FOLIAR)

	DOSAGE		
PEST	LB Al/A	FL OZ/A	APPLICATION INSTRUCTIONS
Aphids	0.033-0.10	2.1-6.4	Ground Application: Apply in water in a minimum of 10 gallons
Army Cutworm			per acre.
Beet Armyworm			
Cereal Leaf Beetle			Air Application: Apply in water in a minimum of 2 gallons per acre.
Chinch Bug			Emulsified oil may be substituted for water.
Common Stalk Borer			
Corn Earworm			See section entitled MIXING INSTRUCTIONS for details on the
Corn Rootworm Adult			amount of oil to use in the spray tank in lieu of water. Make
Cucumber Beetle Adult			applications of Omni Brand Bifenthrin 2EC as necessary to maintain control being careful not to exceed reapplication
Cutworm Species			intervals or maximum dosage rates specified in this section.
European Corn Borer			у при
Fall Armyworm			For pests which attack the ear, apply just before silking.
Flea Beetle			For corn borer control, make application just before or at
Grasshoppers			egg hatch.
Greenbugs			For mite control, apply when colonies first form prior to leaf
Japanese Beetle Adult			damage and before they disperse into the canopy (for Banks
Sap Beetle			Grass Mite - before dispersal into the upper 2/3 of the plant).
Southern Armyworm			Use higher rates of Omni Brand Bifenthrin 2EC when pest
Southern Corn Leaf Beetle			pressure is severe or crop is under stress from drought
Southwestern Corn Borer			and/or heat. When these conditions exist, tank mixtures with
Stink Bugs			dimethoate have shown acceptable control.
Tarnished Plant Bug			
True Armyworm or Armyworm			
Species			
Webworms			
Western Bean Cutworm			
Yellowstriped Armyworm			
Banks Grass Mite	0.08-0.10	5.12-6.4	
Carmine Mite			
Twospotted Spider Mite			

- Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) per acre per season.
- Do not graze livestock in treated areas or cut treated crops for feed within 1 day of the last application.
- Use of ultra low volume (ULV) application on corn is prohibited.
- Do not make aerial or ground applications to corn if heavy rainfall is imminent.
- Do not apply within 1 day of harvest (PHI).

COTTON

DOSAGE		
LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
0.02-0.10	1.3-6.4	Ground Application : Apply in water in a minimum of 5
		gallons per acre.
0.04-0.10	2.6-6.4	Air Application: Apply in water in a minimum of 1
		gallon per acre. Emulsified oil may be substituted for
		water.
		See section entitled MIXING INSTRUCTIONS for
		details on the amount of oil to use in the spray tank in
		lieu of water.
		ULV Application: Apply in a minimum of 1 quart per
		acre using refined vegetable oil with aircraft calibrated
		to give adequate coverage.
		Make applications of Omni Brand Bifenthrin 2EC as
		necessary to maintain control being careful not to exceed reapplication intervals or maximum dosage
		rates specified in this section.
0.06-0.10	3.8-6.4	Tatos opcomou in ano occasin.
		To Control Boll Weevil: Apply Omni Brand Bifenthrin
		2EC at 3- to 4- day intervals until pest populations are
		reduced below economic threshold levels.
		reduced below economic threshold levels.
		To Control Mites and Aphids: Apply when pests first
		appear. Repeat as necessary to maintain control
		without exceeding maximum application rates and
		reapplication intervals. Use higher rates when an
		economic threshold has been established.
	LB Al/A 0.02-0.10	LB Al/A FL OZ/A 0.02-0.10 1.3-6.4 0.04-0.10 2.6-6.4

- Do not apply more than 0.5 lb. active ingredient (32 ounces formulated) per acre per season.
- Do not graze livestock in treated areas or cut treated crops for feed.
- Do not make more than 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season. Synthetic pyrethroid products with active ingredients such as: permethrin, cypermethrin, esfenvalerate, cyfluthrin, bifenthrin, fenpropathrin, and lambda-cyhalothrin,.
- Do not apply within 14 days of harvest (PHI).

CUCURBITS

		DOSAGE		
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Chayote (fruit)	Aphids	0.04-0.10	2.6-6.4	Ground Application: Apply in water in a
Chinese waxgourd (Chinese	Armyworms			minimum of 20 gallons per acre.
preserving melon)	Cabbage Looper			
Citron Melon	Corn Earworm			Air Application: Apply in water in a
Cucumber	Cucumber			minimum of 5 gallons per acre. Emulsified
Gherkin	Beetles			oil may be substituted for water.
Edible Gourd,	Cutworms			
[(hyotan, cucuzza),	Grasshoppers			See section entitled MIXING
Luffa spp. (hechima,	Leafhoppers			INSTRUCTIONS for details on the amount
Chinese okra),	Melonworms			of oil to use in the spray tank in lieu of
Momordica spp.	Pickleworms			water.
(balsam apple,	Rindworms			
balsam pear, bitter melon,	Squash Bugs			
Chinese cucumber)]	Squash Vine			
Muskmelon (hybrids and/or	Borer			
cultivars of Cucumis melo)	Stink Bugs			
(true cantaloupe,	Tobacco			
cantaloupe, casaba,	Budworm			
crenshaw melon, golden	Whitefly	0.08-0.10	5.12-6.4	
pershaw melon,	Banks Grass Mite			
honeydew melon,	Twospotted			
honey balls, mango melon,	Spider Mite			
Persian melon, pineapple	Carmine Mite			
melon, Santa Claus melon,	Lygus spp.			
and snake melon)				
Pumpkin (<i>Cucurbita spp</i> .)				
Squash, summer				
(crookneck squash, scallop				
squash, straightneck				
squash, vegetable marrow,				
zucchini),				
Squash, winter				
(butternut squash,				
calabaza, hubbard squash				
(C. mixta; C. pepo) includes				
acorn squash, spaghetti				
squash)				
Watermelon				
(hybrids and/				
or varieties of <i>Citrullus</i>				
spp.)				

- Do not apply more than 0.3 lb. active ingredient (19.2 ounces formulated) per acre per season.
- Do not make more than two applications after bloom.
- Repeat applications if needed to maintain control, but do not make applications less than 7 days apart.
- Do not apply within 3 days of harvest (PHI).

DRIED BEANS AND PEAS

DRIED BEANS AND		DOSA	GE	
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Dried cultivars of	Banks Grass Mite	0.08 to 0.10	5.12 to 6.4	Ground Application: Apply in water in a
Bean (Lupinus spp.)	Twospotted Spider			minimum of 10 gallons per acre.
Grain Lupin	Mite			
Sweet Lupin	Carmine Mite			Air Application: Apply in water in a minimum of 2
White Lupin	<i>Lygus</i> spp.			gallons per acre.
White Sweet Lupin	Aster Leafhopper	0.025 to 0.10	1.6 to 6.4	
Bean (Phaseolus	Flea Beetle			Emulsified oil may be substituted for water. See
spp.)	Grasshoppers			section entitled MIXING INSTRUCTIONS for
Field Bean	Leafhoppers			details on the amount of oil to use in the spray
Kidney Bean	Aphids	0.033 to 0.10	2.1 to 6.4	tank in lieu of water.
Lima Bean (dry)	Beet Armyworm			
Navy Bean	Fall Armyworm			Thorough coverage is essential to achieve control.
Pinto Bean	Southern			
Tepary Bean	Armyworm			
Bean (Vign <u>a spp.)</u>	Yellowstriped			
Adzuki Bean	Armyworm			
Blackeyed Pea	Bean Leaf Beetle			
Catjang	Cucumber Beetles			
Cowpea	Japanese Beetle			
Crowder Pea	Adult			
Moth Bean	Sap Beetle			
Mung Bean	Plant Bug			
Rice Bean	Stink Bugs			
Southern Pea	Tarnished Plant			
Urd Bean	Bua			
Broad bean (dry)	Alfalfa Caterpillar			
Chickpeas	Cloverworm			
Guar	European Corn			
Lablab Bean	Borer			
Lentils	Cutworms			
Pea (Piscum spp.)	Western Bean			
Field Pea	Cutworm			
Pigeon Pea	Corn Earworm			
· ·	Loopers			
	Corn Rootworm			
	Adults			
	Thrips			
	Webworms			
	Pea Weevil			
	Pea Leaf Weevil			
	Whitefly			
	Imported			
	Cabbageworm			
	Saltmarsh			
	Caterpillar			
	Tobacco Budworm			
	Leafminer			
	Leannine	l .		

- Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) to peas.
- Do not make applications less than 7 days apart.
- Do not apply within 14 days of harvest (PHI).

FRUITING VEGETABLES

ODOD	DEOT	DCC	\OF	
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Eggplant Groundcherry Pepino Pepper (Bell & Non-Bell)	Armyworms (including Beet Armyworm, Fall Armyworm, Southern Yellowstriped Armyworm) Cabbage Loopers	0.033 to 0.10		Ground Application: Apply in water in a minimum of 10 gallons per acre. Air Application: Apply in water in a minimum of 2 gallons per acre.
·	Colorado Potato Beetle Corn Earworm Cucumber Beetles European Corn Borer Flea Beetles Leafminers Loopers Pepper weevil			Emulsified oil may be substituted for water, See section entitled MIXING INSTRUCTIONS for details on the amount of oil to use in the spray tank in lieu of water.
	Plant Bugs Stink Bugs Thrips Tomato Hornworm Tomato Pinworm Vegetable Leafminer Whitefly			
RESTRICTION	Banks Grass Mite Broad Mite Carmine Mite Lygus spp Pacific Spider Mite Twospotted Spider Mite	0.08 to 0.10	5.12 to 6.4	

RESTRICTIONS:

- To maintain a proper spray interval, do not make applications less than 7 days apart.
- Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) per acre per season.

Do not apply within 7 days of harvest (PHI).

Tomatoes	Aphids	0.033 to 0.08	2.1 to 5.2	
Tomatillo	Armyworms (including Beet			Ground Application: Apply in water in a minimum
	Armyworm, Fall			of 15 gallons per acre.
	Armyworm,			
	Southern			Air Application: Apply in water in a minimum of 3
	Yellowstriped Armyworm)			gallons per acre.
	Bean Leaf Beetle			
	Cabbageworms			
	Carmine Mite			
	Cloverworm			
	Corn Earworm			
	Corn Rootworm			
	Cucumber Beetle			
	Cutworms			
	Diamondback Moth			
	European Corn Borer			
	Flea Beetles			
	Flea Hoppers			
	Grasshoppers			
	Japanese Beetle (Adult)			
	Leafhoppers			
	Loopers			
	Lygus spp.			
	Melonworms			
	Pea Weevil			
	Pea Leaf Weevil			
	Pickleworms			
	Plant Bugs			

Rindworms Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug spp. Tobacco Budworm Tarnished Plant Bug Thrips Whitefly			
Twospotted Spider Mite	0.08 to 0.10	5.12 to 6.4	

RESTRICTIONS:

- To maintain a proper spray interval, do not make applications less than 10 days apart.
- Do not make more than 4 applications per season.
- Do not apply within 1 day of harvest (PHI).

GRAPES

	DOSAGE				
PEST	LB Al/A	FL OZ/A	APPLICATION INSTRUCTIONS		
Eastern Grape Leafhopper	0.05 to 0.10	3.2 to 6.4	Ground Application: Apply in water in a minimum of 25 gallons per acre.		
Variegated Leafhopper Western Grape Leafhopper			Air Application: Apply in water in a minimum of 10 gallons per acre. Emulsified oil may be substituted for water.		
Black Vine Weevil Glassywinged Sharpshooter Twospotted Spider Mite	0.10	6.4	See section entitled MIXING INSTRUCTIONS for details on the amount of oil to use in the spray tank in lieu of water. When pest pressure is moderate to severe, use the higher rate.		

RESTRICTIONS:

- Do not apply more than 0.1 lb. active ingredient (6.4 ounces formulated) per acre per season.
- Do not apply within 30 days of harvest (PHI).

HOPS

	DOSAGE		
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Aphids Armyworms Cutworms Leafrollers Loopers	0.06-0.10	3.8-6.4	Ground Application: Apply in water in a minimum of 100 – 150 gallons per acre in early season; 200-250 gallons per acre late season. Air Application: Apply in water in a minimum of 10 gallons per acre.
Root Weevils	0.05-0.10	3.2-6.4	Make a directed spray up the vine 3 feet and the soil surface 1.5 to 2 feet on either side of the plant to control root weevil.
Twospotted Spider Mite	0.10	6.4	

- Do not apply more than 0.1 lb. active ingredient (6.4 ounces formulated) per acre per application.
- Do not apply more than 0.3 lb. active ingredient (19.2 ounces formulated) per acre per season.
- To maintain a proper spray interval, do not make applications less than 21 days apart.
- Use of ultra low volume (ULV) application on hops is prohibited.
- Do not apply within 14 days of harvest (PHI).

LEAFY BRASSICAS AND TURNIP GREENS

		DOS	AGE	
CROP	PEST	LB Al/A	FL OZ/A	APPLICATION INSTRUCTIONS
Broccoli Raab Bok Choy Kale Mizuna Mustard Greens Mustard Spinach Rape Greens Turnip Greens*	Aphids Armyworms Corn Earworm Crickets Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Grasshoppers Ground Beetles Imported Cabbageworm Japanese Beetle (adult) Leafhoppers Loopers Saltmarsh Caterpillar Stink Bugs Thrips Tobacco Budworm Whitefly	0.033 to 0.10	2.1 to 6.4	Ground Application: Apply in water in a minimum of 10 gallons per acre. Air Application: Apply in water in a minimum of 2 gallons per acre. Emulsified oil may be substituted for water. See section entitled MIXING INSTRUCTIONS for details on the amount of oil to use in the spray tank in lieu of water. Thorough coverage is essential to achieve control. * Not for use in California.
	Wireworm (adults)			
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus spp.	0.08 to 0.10	5.12 to 6.4	

RESTRICTIONS:

- Do not apply more than 0.4 lb. active ingredient (25.6 ounces formulated) per acre per season. Repeat applications if needed to maintain control, but do not make applications less than 7 days apart.
- Do not apply within 7 days of harvest (PHI).

LETTUCE. HEAD

	DOSAGE		
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Aphids	0.033-0.10	2.1-6.4	Ground Application: Apply in water in a minimum of 15 gallons per acre.
Armyworms			
Corn Earworm			Air Application: Apply in water in a minimum of 5 gallons per acre.
Cucumber Beetles			Emulsified oil may be substituted for water. See section entitled MIXING
Cutworms			INSTRUCTIONS for details on the amount of oil to use in the spray tank in lieu
Diamondback Moth			of water.
Flea Beetle			
Imported			
Cabbageworm			
Leafhoppers			
Loopers			
Salt Marsh			
Caterpillar			
Stink Bug spp.			
Tobacco Budworm			
Whitefly			

	DOSAGE		
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Carmine Mite	0.08-0.10	5.12-6.4	
Lygus spp.			
Twospotted Spider			
Mite			

RESTRICTIONS:

- To maintain a proper spray interval, do not make applications less than 7 days apart.
- Do not apply more than 0.5 lb. active ingredient (32 ounces formulated) per acre per season.
- Do not apply within 7 days of harvest (PHI).

MAYHAW*

	DOS	AGE	
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Plum Curculio	0.08 -0.10	5.12 -6.4	Ground Application: Apply in water in a minimum of 28 gallons of
			finished-spray per acre.
			Air Application: Apply in water in a minimum of 2 gallons per acre.
			Apply in sufficient water to obtain uniform coverage as needed.

RESTRICTIONS:

- Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) per acre per season.
- To maintain a proper spray interval, do not make applications less than 7 days apart.
- Do not apply within 30 days of harvest (PHI).

OKRA

	DOS	AGE	
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Aphids Armyworms Corn Earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Japanese Beetle (Adult) Leafminers Loopers Stink bugs Thrips Whitefly	0.033 - 0.10	2.1 - 6.4	Ground Application: Apply in water in a minimum of 10 gallons of finished-spray per acre. Air Application: Apply in water in a minimum of 2 gallons per acre. Apply in sufficient water to obtain uniform coverage as needed.
Broad Mite Carmine Mite Lygus spp. Two Spotted Spider Mite	0.08 - 0.10	5.12 - 6.4	

- To maintain a proper spray interval, do not make applications less than 7 days apart.
- Do not apply more than 0.20 lb. active ingredient (12.8 ounces formulated) per acre per season.
- Do not apply within 7 days of harvest (PHI).

^{*}This product must be used in accordance with the directions for use on this label, or exemptions under FIFRA (Special Local Needs Registrations, FIFRA Section 18 exemptions).

PEANUT*

	DOS	AGE	
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Beet Armyworm	0.033 -0.1	2.1 - 6.4	Ground Application: Apply in water in a minimum of 10 gallons of
Corn Earworm			finished spray per acre.
Cutworm species			
Fall Armyworm			Air Application: Apply in water in a minimum of 2 gallons per acre.
Grasshoppers			
Green Cloverworm			Apply in sufficient water to obtain uniform coverage as needed.
Leafhoppers			
Lesser Cornstalk Borer			
Loopers			
Rednecked Peanut Worm			
Southern Armyworm			
Southern Corn Rootworm			
Stink Bugs			
Threecornered Alfalfa Hopper			
Velvetbean Caterpillar			
Yellowstriped Armyworm			
Aphids	0.06 - 0.1	3.8 - 6.4	
Spider Mites			
Thrips			
Whitefly			

RESTRICTIONS:

- Do not apply more than 0.5 lb. active ingredient (32 ounces formulated) per acre per season.
- To maintain a proper spray interval, do not make applications less than 14 days apart.
- Do not feed immature plants and peanut hay to livestock.
- Do not apply within 14 days of harvest (PHI).
- * Not For Use in California.

PEARS

Aphids 0.04 - 0.2 2.6 - 12.8 Ground Application: Application Application Application Cutworms	ICATION INSTRUCTIONS ply in water in a minimum of 200 gallons per per acre (concentrate).
Aphids Codling Moth Cutworms Green Fruitworm Leafhoppers O.04 - 0.2 2.6 - 12.8 Ground Application: Application acre (dilute) and 50 gallons Air Application: Apply in air.	ply in water in a minimum of 200 gallons per
Codling Moth Cutworms Green Fruitworm Leafhoppers acre (dilute) and 50 gallons Air Application: Apply in air.	
Leafrollers Lygus spp. Plant Bugs Plum Curculio San Jose Scale (Crawlers) Stink Bugs Tarnished Plant Bugs	water in a minimum of 10 gallons per acre by
Twospotted Spider 0.06 - 0.2 3.8 - 12.8	
Mite Yellow Mite	
European Red Mite 0.08 - 0.2 5.12 - 12.8	

- Do not apply more than 0.5 lb. active ingredient (32 ounces formulated) per acre per season with no more than 0.45 (28.8 ounces formulated) pound active per acre applied after petal fall.
- To maintain a proper spray interval, do not make applications less than 30 days apart.
- Do not graze livestock in treated orchards or cut treated cover crops for feed.
- Do not apply within 14 days of harvest (PHI).

ROOT CROPS (except Sugar Beets)

,	,	DOSA	\GE	
CROP	PEST	LB Al/A	FL OZ/A	APPLICATION INSTRUCTIONS
Burdock, edible	Aphids	0.08 - 0.10	5.12 - 6.4	Ground Application: Apply in water in a
Carrot	Beet Armyworm			minimum of 25 gallons of finished spray per
Celeriac	Celery Leaftier			acre.
Chervil, Turnip rooted	Corn Earworm			dolo.
Chicory	Cross-Striped			Air Application: Apply in water in a minimum
Ginseng	Cabbageworm			of 2 gallons per acre.
Horseradish	Cutworm species			or 2 gamono por doro.
Parsley, Turnip rooted	Diamondback moth			Apply in sufficient water to obtain uniform
Parsnip	European Corn Borer			coverage as needed.
Radish	Fall Armyworm			coverage as needed.
Radish, Oriental	Flea Beetles			
Rutabaga	Green Cloverworm			
Salsify	Hornworms			
Salsify, Black	Imported Cabbageworm			
Salsify, Spanish	Loopers			
Skirret	Southern Armyworm			
Turnip	Spider Mites			
	Tobacco Budworm			
	Velvetbean Caterpillar			
	Whitefly			
	Yellowstriped Armyworm			

RESTRICTIONS:

- Do not apply more than 0.5 lb. active ingredient (32 ounces formulated) per acre per season.
- To maintain a proper spray interval, do not make applications less than 7 days apart.

Do not apply within 21 days of harvest (PHI).

		Dos	age	
CROP	PEST	LB Al/A	FL OZ/A	COMMENTS
Garden Beet	Aphids Flea Beetles Lepidopterous Larvae Spider Mites Whitefly	0.08 - 0.10	5.12 - 6.4	Ground Application: Apply in water in a minimum of 25 gallons of finished spray per acre. Air Application: Apply in water in a minimum of 2 gallons per acre. Apply in sufficient water to obtain uniform coverage as needed.

RESTRICTIONS:

- Do not apply more than 0.40 lb. active ingredient (25.6 ounces formulated) per acre per season.
- To maintain a proper spray interval, do not make applications less than 7 days apart.
- Do not apply within 1 day of harvest (PHI).

SOYBEANS

	DOSAGE		
PEST	LB Al/A	FL OZ/A	APPLICATION INSTRUCTIONS
Alfalfa Caterpillar Aphids Aster Leafhopper Bean Leaf Beetle Beet Armyworm* Cloverworm Corn Earworm Corn Rootworm Adult Cucumber Beetles Cutworms European Corn Borer Fall Armyworm	0.033 - 0.10	2.1 - 6.4	Ground Application: Apply in water in a minimum of 10 gallons per acre. Air Application: Apply in water in a minimum of 2 gallon per acre. *Pyrethroid resistance is common for Beet Armyworm and Tobacco Budworm. Consult your local extension specialist, certified crop advisor, and/or manufacturer for insecticide resistance management and/or IPM guidance for the specific site and resistant pest problems.

EL D ()			
Flea Beetle			
Grasshoppers			
Imported Cabbageworm			
Japanese Beetle Adult			
Leafhoppers			
Leafminers			
Loopers			
Mexican Bean Beetle Adult			
Pea Leaf Weevil			
Pea Weevil			
Plant Bug			
Saltmarsh Caterpillar			
Sap Beetle			
Southern Armyworm			
Soybean Aphid			
Stink Bugs			
Tarnished Plant Bug			
Thrips			
Tobacco Budworm*			
Webworms			
Western Bean Cutworm			
Whitefly			
Yellowstriped Armyworm			
Lygus spp.	0.08 - 0.10	5.12 - 6.4	
Whitefly			
Twospotted Spider Mite			
DECTRICTIONS.			

RESTRICTIONS:

- To maintain a proper spray interval, do not make applications less than 30 days apart.
- Do not apply more than 0.3 lb. active ingredient (12.8 ounces formulated) per acre per season.
- Do not apply within 18 days of harvest (PHI).

SPINACH

	DOS	AGE	ADDI ICATION INCTRUCTIONS	
PESTS	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS	
Armyworms Colorado Potato Beetle Corn Earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Pepper Weevil Thrips Tomato Hornworm Tomato Pinworm Whitefly	0.033 - 0.10	2.1 - 6.4	Ground Application: Apply in water in a minimum of 10 gallons per acre. Air Application: Apply in water in a minimum of 5 gallons per acre. For whitefly control either at planting or as a foliar treatment, apply up to 6.4 oz. (0.1 lb. active) per acre being careful not to exceed reapplication intervals or maximum dosage rates specified in this section.	
Banks Grass Mite Broad Mite Carmine Mite Lygus spp. Pacific Spider Mite Twospotted Spider Mite	0.08 - 0.10	5.12 - 6.4		

- To maintain a proper spray interval, do not make applications less than 7 days apart.
- Do not apply more than 0.4 lb. active ingredient (25.6 ounces formulated) per acre per season.
- Do not apply within 40 days of harvest (PHI).

SUCCULENT PEAS AND BEANS

		DOS		
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Pea (Pisum spp.)	Aster Leafhopper	0.025-0.10	1.6-6.4	Ground Application: Apply in water in a minimum of 10
Dwarf Pea	Flea Beetle			gallons per acre.
Edible-pod Pea	Grasshoppers			
English Pea	Leafhoppers			Air Application: Apply in water in a minimum of 2
Garden Pea	Alfalfa Caterpillar	0.033-0.10	2.1-6.4	gallons per acre. Emulsified oil may be substituted for
Green Pea	Aphids			water.
Snow Pea	Bean Leaf Beetle			
Sugar Snap Pea	Beet Armyworm			See section entitled MIXING INSTRUCTIONS for details
Pigeon Pea	Cloverworm			on amount of oil to use in the spray tank.
Bean (Phaseolus	Corn Earworm			
spp.)	Corn Rootworm			
Broadbean	Adult			
(succulent)	Cucumber Beetle			
Lima bean (green)	Cutworms			
Runner bean	European Corn			
Snap bean	Borer			
Wax bean	Fall Armyworm			
Bean (Vigna spp.)	Japanese Beetle			
Asparagus Bean	Adult			
Blackeyed Pea	Loopers			
Chinese Longbean	Pea Leaf Weevil			
Cowpea	Pea Weevil			
Moth Bean	Plant Bugs			
Southern Pea	Sap Beetle			
Yardlong bean	Southern Armyworm			
Jackbean	Stink Bugs			
Soybean	Tarnished Plant			
(immature seed)	Bug			
Sword bean	Thrips			
	Webworms			
	Western Bean			
	Cutworm			
	Whitefly			
	Yellowstriped			
	Armyworm			
	Banks Grass Mite	0.08-0.10	5.12-6.4	
	Carmine Mite			
	Lygus spp.			
	Twospotted Spider			
	Mite			
DESTRICTIONS:	1	1	1	<u> </u>

- Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated product) per acre per season. Do not apply within 3 days of harvest (PHI).

TOBACCO

	DOSAGE		
PEST	LB Al/A	FL OZ/A	APPLICATION INSTRUCTIONS
Armyworm spp.	0.0625-0.10	4.0 - 6.4	Pre-Transplant Soil Applications: Apply 0.0625 - 0.1 lb. active
Cutworm spp.			ingredient per acre in a minimum of 10 gallons per acre to control soil
Mole Crickets			pests. Use of suitable equipment to incorporate into top 4" of the soil is
Stalkborers			required to control below- ground pests.
Tobacco Flea Beetle (larvae)			
White Grubs			Transplant Water Treatment Application: Apply 0.0625 - 0.1 lb.
Wireworms			active ingredient per acre in a water treatment application volume of 10-
			200 gallons per acre.
Aphid spp.	0.04 - 0.10	2.56 - 6.4	Foliar Applications: Apply 0.04 - 0.1 lb. active ingredient per acre
Armyworm spp.			foliar application up to and including layby in a minimum of 10 gallons
Flea Beetle (Adult)			per acre.
Chinch bugs			
Stink bugs			
Japanese Beetles			
Grasshoppers			
Cutworm spp.			
Tarnished Plant Bugs			
Green bugs			
Thrips			
Whiteflies			
Spider Mites	0.10	6.4	
Lygus spp.			

RESTRICTIONS:

- For foliar applications, do not make more than 2 applications per season.
- May be tank mixed with clomazone, sulfentrazone, and other herbicides approved for tobacco use.
- For all applications do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) per acre per season.
- Do not apply later than layby.

TREE NUT CROPS

Tree Nut Crops including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, pistachio, and Walnut (Black & English)

	DOSAGE		
PEST	LB Al/A	FL OZ/A	APPLICATION INSTRUCTIONS
Black Pecan Aphid	0.052-0.20	3.2-12.8	Ground Application: Apply as a dilute (minimum of 200 gallons of
Codling Moth			finished spray per acre) or concentrate (minimum of 50 gallons of
Filbert Worm			finished spray per acre) spray in sufficient water to provide thorough
Hickory Shuckworm			coverage.
Leaffooted Bugs			
Navel Orangeworm			Air Application: Apply in a minimum of 10 gallons of finished spray per
Oblique Banded Leafroller			acre.
Peach Twig Borer			
Pecan Leaf Casebearer			
Pecan Nut Casebearer			
Pecan Phylloxera			
Plant Bugs			
Stink Bugs			
Walnut Aphid Yellow Pecan Aphid			
European Red Mite	0.08-0.20	5.1-12.8	
Spider Mites	0.00-0.20	3.1-12.0	
•	0.1.0.20	6 4 12 9	
Walnut Husk Fly	0.1-0.20	6.4-12.8	

RESTRICTIONS:

- Minimum spray intervals: Apply Omni Brand Bifenthrin 2EC as needed to maintain control, but not apply at intervals sooner than 15 days.
- Observe a 21-day Pre-Harvest Interval (PHI) for Pecans and a 7-day Pre-Harvest Interval (PHI) for all other registered tree nut crops.
- Do not exceed 0.2 lb. active ingredient per acre per application; do not exceed 0.50 lb. active ingredient per acre per season.
- Do not graze livestock in treated orchards or cut treated cover crops for feed.
- Do not apply within 21 days of harvest (PHI) for Pecans.
- Do not apply within 7 days of harvest (PHI) for all other nut crops.

TUBEROUS AND CORM VEGETABLES

		DOSAGE		
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Arracacha Arrowroot Potato Chinese Artichoke Jerusalem Artichoke Edible Canna Cassava (bitter & sweet) Chayote (root) Chufa Dasheen (taro) Ginger Leren Potato Sweet Potato Tanier Turmeric Yam bean True yam	Corn Wireworm Tobacco Wireworm Tobacco Wireworm Japanese Beetle Grubs June Beetle Southern Potato Wireworm Banded Cucumber Beetle Black Flea Beetle Cucumber Beetle Rootworms Sweetpotato Flea Beetle Sweetpotato Weevil Whitefringed Beetle White Grub Sugarcane Beetle	0.30 (at-plant) 0.05-0.15 (layby) 0.033-0.10 (foliar)	19.2 (at-plant) 3.2-9.6 (layby) 2.1-6.4 (foliar)	In-Furrow planting time treatment Omni Brand Bifenthrin 2EC may be applied as an in-furrow planting time treatment for the control of wireworms, rootworms, and white grubs. Apply Omni Brand Bifenthrin 2EC at the rate of 0.3 lb. active ingredient per acre as an in-furrow spray or T-band spray at planting time. Lay-By treatment: Omni Brand Bifenthrin 2EC may be applied as a layby treatment for the control of wireworms, rootworms and white grubs. Apply Omni Brand Bifenthrin 2EC to the drill area and cover with soil utilizing cultivation equipment set to throw soil to the drill area. Apply Omni Brand Bifenthrin 2EC as a banded spray over the row at a rate of 0.05 -0.15 lb. active ingredient per acre (3.2 - 9.6 ounces formulated) in 10 gallons per acre of spray. Foliar spray: Omni Brand Bifenthrin 2EC may be applied as a foliar spray for the control of the adult life stages of flea beetles, click beetles (wireworms), cucumber beetles (rootworms), whitefringed beetles and May/June beetles (white grubs). Omni Brand Bifenthrin 2EC at the rate of 0.033 to 0.10 lb. active ingredient per acre (2.1 to 6.4 ounces formulated) in 10 gallons of spray by ground and 3 gallons of spray by air.

RESTRICTIONS:

- For foliar applications, do not make more than 2 foliar applications per season and do not make application less than 21 days apart.
- Do not apply more than 0.5 lb. active ingredient (32 ounces formulated) per acre per season, including soil applications.
- Do not apply within 21 days of harvest (PHI).

ORNAMENTALS*

* NOT FOR USE IN CALIFORNIA TO CONTROL LISTED INSECT PESTS ON ORNAMENTALS AND TREES (INCLUDING FIELD AND CONTAINER GROWN NURSERY STOCK, CHRISTMAS TREES, INTERIORSCAPES AND PLANTSCAPES, LAWNS, TREES AND SHRUBS, AND ON GOLF COURSES AND SOD FARMS).

For use on plants intended for aesthetic purposes or climatic modifications and being grown in interior plantscapes and on outdoor ornamentals, Christmas trees, nurseries, lawns, sod farms and golf courses.

USE INSTRUCTIONS

Omni Brand Bifenthrin 2EC mixes with water and other aqueous carriers to control a broad assortment of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in interiorscapes: hotels, shopping

malls, office buildings and outdoor plantscapes: nurseries, residential dwellings, parks, institutional buildings, recreational areas, athletic fields, golf courses, sod farms, and home lawns. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity within 365 days of application.

Omni Brand Bifenthrin 2EC may be tank-mixed with other products, including insect growth regulators. When tank mixing Omni Brand Bifenthrin 2EC with other products observe all precautions and limitations on each separate product label. The addition of spreader stickers is not necessary. The physical compatibility of Omni Brand Bifenthrin 2EC may vary with different sources of pesticide products, and local cultural practices. Prepare any tank mixture which has not been previously tested on a small scale (pint or quart jar), using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions:

- 1. Add wettable powders to tank water
- 2. Agitate
- 3. Add fluids and flowables
- 4. Agitate
- 5. Add emulsifiable concentrates
- 6. Agitate

If a mixture is found to be incompatible following the order of addition, try reversing the order of addition, or increase the volume of water. **Note**: If the tank mixture is found to be compatible after increasing the amount of water then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight. When using tank mixes, observe all restrictions and precautions which appear on the labels of these products. Provide constant agitation to keep the mixture in solution.

Restrictions:

- Do not apply to pets, crops, or sources of electricity.
- · Firewood is not to be treated.
- Do not allow spray to contact food, foodstuffs, food contacting surfaces, food utensils or water supplies.
- Do not apply this pesticide in livestock buildings (barns).
- Keep children and pets off treated areas following application until the spray has dried.
- · Do not apply by air.
- Do not use in greenhouses.
- Do not apply this product through any type of irrigation system. Do not apply when a temperature inversion exists.
- Do not apply for surface feeding pests if rain is expected within 12 hours (or whatever time is necessary for the spray to dry).
- For turf treatment, apply with nozzles not more than 2 feet above the grass.
- Do not apply within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.
- Do not apply when grass areas are water logged or the soil is saturated with water (i.e., will not accept irrigation).
- Vinyl and Aluminum Siding: Do not spray directly onto vinyl or aluminum siding. If Omni Brand Bifenthrin 2EC inadvertently contacts vinyl and aluminum siding (particularly lightly colored, aged, weathered or otherwise damaged), it may result in staining, bleaching or discoloration. Wash off thoroughly with detergent and water. Factors such as extreme heat and direct sunlight can promote damage when using emulsifiable concentrates. Avoid application to vinyl or aluminum siding while exposed to direct sunlight or during the heat of the day.

APPLICATION INSTRUCTIONS

TRUNK SPRAYS TO ORNAMENTAL TREES (including Christmas trees) For Control of Bark Beetles and Boring Beetles

Refer to the table below. Application rates and timing differ according to the target pest and other factors specific to each local situation. Consult your local State Extension specialist or other qualified expert for recommendations. **Note:** Do not

apply more than 12.8 fl. oz. (0.2 lbs. AI) per acre of this product to trees. Repeat application may be necessary if reinfestation is likely.

PEST	DOSAGE	SPRAY VOLUME	REMARKS AND RESTRICTIONS
Dandroctonus bark beetles such as mountain pine beetle, southern pine beetle, western pine beetle, and black turpentine beetle.	16 -32 fl. oz. per 100 gallons (0.25 – 0.5 lb. Al per 100 gallons)	Use 1-4 gallons of finished spray per tree.	Make applications to the trunk of the tree with a hydraulic sprayer in the early spring or prior to adult beetle flight and tree infestation.
Engraver beetle (<i>lps</i> spp.)	16 – 32 fl. oz. per 100 gallons (0.25 – 0.5 lb. Al per 100 gallons)	Use 10-14 gallons of finished spray per tree.	Apply spray directly to the main trunk from the base of the tree to at least half-way into the live crown. Spray until the bark is thoroughly wet.
Other bark beetles such as ambrosia beetles, elm bark beetles, and metallic wood borers such as emerald ash borer.	16 – 32 fl. oz. per 100 gallons (0.25 – 0.5 lb. Al per 100 gallons)	Use 2-5 gallons of finished spray per tree.	Make applications of a spray mixture to the trunk, scaffolding and limbs of the tree with a hydraulic sprayer in the early spring or prior to adult beetle flight and tree infestations. Spray until the bark is thoroughly wet.
Clearwing moth borers such as ash borer, banded ash clearwing, dogwood borer, lesser peachtree borer, lilac borer, oak borer, peachtree borer, rhododendron borer	6.4 – 12.8 fl. oz. per 100 gallons (0.1 – 0.2 lb. Al per 100 gallons)	Use 1-4 gallons of finished spray per tree.	Apply to the branches and trunks prior to adult emergence. Spray until the bark is thoroughly wet. For maximum residual control, use highest recommended rate.
Coleopteran borers such as bronze birch borer, flatheaded apple tree borer			

Treatment of Infested Trees to Control Emerging Brood

Make applications of a spray mixture containing 2.0 pints of Omni Brand Bifenthrin 2EC per 100 gallons of water to trees that still have beetles in the bark. Apply spray directly to the main trunk from the base of the tree to at least half-way into the live crown. Spray until the bark is thoroughly wet (usually 1 to 4 gallons of spray per tree). Do not apply more than 0.2 lbs. Al (12.8 fl. oz.) of this product to trees per acre.

Do not spray trees on which all needles have turned brownunless an infestation is confirmed. To confirm an infestation, scrape off the outer bark to determine if trees are still infested. If live infestations remain in the trunks, fell the trees and cut into sections. Spray the trunk and large limbs and turn sections so that all of the surface area can be treated. Do not apply more than 0.2 lbs. Al (12.8 fl. oz.) of this product to trees per acre.

FOLIAR SPRAYS TO ORNAMENTALS AND TREES

(Field and Container Grown Nursery Stock, Christmas Trees, Interiorscapes and Plantscapes, Lawns, Trees and Shrubs, and on Golf Courses and Sod Farms)

For applications to ornamentals (trees, shrubs, ground covers, bedding plants and foliage plants, conifers (field and container grown), Christmas Trees and pine seed orchards) apply 0.04 to 0.32 fl. oz. Omni Brand Bifenthrin 2EC per 1,000 sq. ft. or 1.8 to 14.4 fl. oz. per 100 gallons. Omni Brand Bifenthrin 2EC may be diluted and applied in various volumes of water providing that the maximum label rate (0.32 fl. oz. per 1,000 sq. ft. or 14.4 fl. oz. per 100 gallons) is not exceeded. Omni Brand Bifenthrin 2EC may be applied through low volume application equipment by dilution with water or other carriers and providing that the maximum label rate (0.32 fl. oz. per 1,000 sq. ft. or 14.4 fl. oz. per 100 gallons) is not exceeded.

Calculating Dilution Rates Using the Ornamental Application Rates Table and the Omni Brand Bifenthrin 2EC Dilution Chart

Use the following steps to determine the appropriate dilution of this product required to control the specific pests:

- 1. Find the least susceptible target pest (the pest that requires the highest application rate for control).
- 2. Select an application rate in terms of fluid ounces of this product.
- 3. Find your application volume and how much spray you want to prepare.

4. Use the **Ornamental Dilution Chart** to determine the appropriate volume of this product that must be mixed in your desired volume of water.

For example, to control black vine weevil adults on rhododendron, the **Ornamental Application Rates** table shows that 0.08 to 0.16 fl. oz. of this product should be applied per 1,000 sq. ft. You select an application rate of 0.16 fl. oz. per 1,000 sq. ft. because maximum residual control is desired. Your application volume is approximately 300 gallons per acre which is equivalent to 6.9 gallons per 1,000 sq. ft. Consulting the **Ornamental Dilution Chart** shows that you should dilute 0.24 fl. oz. of this product in 10 gallons of water.

	OMNI BRAND BIFENTHRIN 2EC ORNAMENTAL DILUTION CHART									
Application	Fluid	Ounces (mL) of	Omni Brand Bif	enthrin 2EC dilu	ted to the Volum	es of Finished S	Spray			
Rate	1 Ga	allon	5 Ga	llons	10 Ga	ıllons	100 Gallons			
Fl. oz./1,000	Fl. oz.	mL	Fl. oz.	mL	Fl. oz.	mL	Fl. oz.			
sq. ft.										
0.04	0.018	0.5	0.09	2.6	0.18	5.3	1.8			
0.08	0.036	1.1	0.18	5.3	0.36	10.6	3.6			
0.16	0.072	2.1	0.36	10.6	0.72	21.3	7.2			
0.32	0.144	4.3	0.72	21.3	1.44	42.6	14.4			

(7.9)(Fl. Oz. of Omni Brand Bifenthrin 2EC added to tank (gallons of finished spray mix)(128)

Percent Active Ingredient of Spray Mix

ORNAMENTAL AND TREE FOLIAR APPLICATION RATES

The application rates listed in the following table will provide excellent control of the noted pests under typical conditions. However, at the discretion of the applicator, this product may be applied at up to 0.32 fl. oz. per 1,000 sq. ft (14.4 fl. oz. per 100 gallons) to control each of the pest listed in this table. To achieve maximum residual control, use the higher application rates.

PEST	DOSAGE	REMARKS AND RESTRICTIONS
Bagworms ¹ Cutworms Elm Leaf Beetles Fall Webworms Gypsy Moth Caterpillars Lace Bugs Leaf Feeding Caterpillars Tent Caterpillars	0.04 – 0.08 fl. oz. per 1,000 sq. ft. (1.8 – 3.8 fl. oz. per 100 gallons)	Bagworms: For best results, apply when larvae begin to hatch and spray larvae directly. Applications when larvae are young will be most effective. Beetles, Scale Crawlers, Twig Borers, and Weevils: May treat trunks, stems and twigs in addition to plant foliage.
Tussock moth Adelgids Ants Aphids Bees Beet Armyworm Beetles ² Black Vine Weevil (Adults) Scales, such as Brown Soft Scales California Red Scale (Crawlers) ² Elongated Hemlock Scale Pine Needle Scales (crawlers) ² San Jose Scales (Crawlers) ² Sroad Mites Budworms Cicadas Citrus Thrips Clover Mites	0.08 – 0.16 fl. oz. per 1,000 sq. ft. (3.6 – 7.2 fl. oz. per 100 gallons)	³ Spider Mites: Omni Brand Bifenthrin 2EC provides optimal twospotted spider mite control when applied during spring to mid-summer. Higher application rates and/or more frequent treatments may be required for acceptable twospotted spider mite control during mid- to late-summer. The addition of a surfactant or horticultural oil may increase the effectiveness of this product. Combinations of this product with other registered miticides have also proven effective. Alternately, Omni Brand Bifenthrin 2EC applications may be rotated with those of other products that have different modes of action in control programs that <i>are</i> designed to manage resistance by twospotted spider mites. Consult your local Cooperative Extension Service for resistance management recommendations in your region.

PEST	DOSAGE	REMARKS AND RESTRICTIONS
Crickets		
Earwigs		
European Red Mite		
Flea Beetles		
Fungus Gnats (Adults)		
Glassywinged Sharpshooter		
Grasshoppers		
Japanese Beetle (Adult)		
Leafhoppers		
Leafrollers		
Mealybugs		
Mites		
Nantucket Pine Tip Moth		
Pillbugs		
Pine sawflies		
Plant Bugs (including <i>Lygus</i> spp.)		
Psyllids		
Scorpions		
Spider Mites ³		
Spittlebugs		
Thrips		
Tip Moths		
Treehoppers		
Twig Borers ²		
Wasps Weevils ² such as		
White Pine Weevil Pales Weevil		
Diaprepes adults		
Orchid Weevil		
White flies		
Zimmerman pine moths		
Leafminers	0.16 – 0.32 fl. oz. per 1,000	
Pecan Leaf Scorch Mite	sq. ft.	
Pine Shoot Beetle (Adults)	Jq. 1t.	
Spider Mites ³	(7.2 – 14.4 fl. oz. per 100	
Spider Million	gallons)	
	ganorio,	

BROADCAST SPRAYS TO TURFGRASS (including lawns, golf courses, sod farms, parks, etc).

Apply Omni Brand Bifenthrin 2EC as a broadcast treatment. Use higher volumes up to 10 gallons of carrier per 1000 square feet to get uniform coverage when treating dense grass foliage.

For low water volume usage, less than 2 gallons/1000 square feet, addition of a non-ionic or silicone based surfactant (0.25% v/v) is recommended. Irrigation to treated area within a few hours following application can improve efficacy to sub-surface pests such as, but not limited to, mole crickets.

Restrictions:

- In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
- In New York State, do make a single repeat application of this product if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

Spray Drift Precautions (For Turf & Ornamental Uses)

Do not apply when wind conditions laver downwind drift to nearby water bodies.

Do not apply when wind velocity exceeds 10 miles per hour. Avoid application when wind gusts approach 10 mph.

Apply using nozzles that provide the largest droplet size compatible with adequate coverage

Turfgrass Application Rates

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. To achieve maximum residual control, use the higher application rates.

PEST	RATE
Armyworms ¹	0.05 to 0.08 fl. oz. per 1,000 sq. ft.
Cutworms ¹ Sod Webworm ¹	A higher rate of up to 0.32 fl. oz. per 1,000 sq. ft. may be applied at
Sod Webworm	the discretion of the applicator.
Annual Bluegrass Weevil (Hyperodes) (Adult) ²	0.08 to 0.16 fl. oz. per 1,000 sq. ft.
Banks Grass Mite ⁶	A higher rate of up to 0.32 fl. oz. per 1,000 sq. ft. may be applied at
Billbugs (Adult) ³	the discretion of the applicator.
Black Turfgrass Ataenius (Adult) ⁴	
Crickets	
Earwigs	
Fleas (Adult)	
Grasshoppers	
Mealybugs	
Mites ⁶	
Ants	0.16 to 0.32 fl. oz. per 1,000 sq. ft.
Chinch Bugs ⁵	
Fleas (Larvae) ⁷	
Japanese Beetle (Adult)	
Mole Cricket (Adult) ⁹	
Mole Cricket (Nymph) ¹⁰	
Ticks ¹¹	

- 1. **Armyworms, Cutworms and Sod Webworms:** To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. If the grass area is being maintained at a mowing height of greater than 1 inch, then higher application rates (up to 0.32 fluid oz. per 1000 square feet) may be required during periods of high pest pressure.
- 2. **Annual Bluegrass Weevil (Hyperodes) adults:** Time applications to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when Forsythia is in full bloom and concludes when flowering dogwood (Carnes florida) is in full bloom. Consult your State Cooperative Extension Service for more specific information regarding application timing.
- 3. **Billbug adults:** Make applications when adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over-wintered chinch bugs.
- 4. **Black Turfgrass Ataenius adults:** Make applications during May and July to control the first and second generation of black turfgrass ataenius adults, respectively. Time the May application to coincide with the full bloom stage of Vanhoutte spiraea (Spiraea vanhouttei) and horse chestnut (Aesculus hippocastanum). Time the July application to coincide with this blooming of Rose of Sharon (Hibiscus syriacus).
- 5. **Chinch Bugs:** Chinch Bugs infest the base of grass plants and are often found in the thatch layer. Irrigation of the grass area before treatment will optimize the penetration at the insecticide to the area where the chinch bugs are located. Use higher volume applications if the thatch layer is excessive or if a relatively long mowing height is being maintained. Chinch bugs can be one of the most difficult pests to control in grasses and the higher application rates (up to 0.32 fluid oz. per 1000 square feet) may be required to control populations that contain both nymphs and adults during the middle of the summer.
- 6. **Mites:** To ensure optimal control of eriophyid mites, apply in combination with the labeled application rate of a surfactant. A second application, five to seven days after the first, may be necessary to achieve acceptable control.
- 7. **Flea larvae:** Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Use a higher volume application when treating these areas to ensure penetration of the insecticide into the soil. Note: if the lawn area is being treated with this product at 0.08 fluid ea, per 1000 square feet for adult flea control, then the larval application rate may be achieved by increasing the application volume two- to four-fold.

- 8. **Mole Cricket adults:** Achieving acceptable control of adult mole crickets is difficult because preferred grass areas are subject to continuous invasion during the early spring by this extremely active stage. Make applications as late in the day as possible and watere in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized. Treat grass areas that receive pressure from adult mole crickets at peak egg hatch to ensure optimum control of subsequent nymph populations (see below).
- 9. **Mole Cricket nymphs:** Treat grass areas that received intense adult mole cricket pressure in the sprIng immediately prior to peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging, nymphs later in the year may require both higher application rates and more frequent applications to maintain acceptable control. Make applications as late in the day as possible and watere in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.
- 10. Ticks (Including ticks that may transmit Lyme Disease and Rocky Mountain Spotted fever): Do not make spot applications. Treat the entire area where exposure to ticks may occur. Use higher spray volumes when treating areas with dense ground cover or heavy leaf liner. Ticks may be reintroduced from surrounding areas on host animals. Retreatment may be necessary to achieve and/or maintain control during periods of high past pressure. Repeat application is necessary only if there are signs of renewed activity. Repeat application must be limited to no more than once per seven days.

Deer ticks (*Ixodes* spp.) have a complicated life cycle that ranges over a two year period and involves four life stages. Make applications in the late fall and/or early spring to control adult ticks that are usually located on brush or grass above the soil surface and in mid to late spring to control larvae and nymphs that reside in the soil and leaf litter.

American dog ticks may be a considerable nuisance in suburban settings, particularly where homes are built on land that was previously field or forest. These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Make applications as necessary from mid-spring to early fall to control American dog tick larvae, nymphs and adults.

Omni Brand Bifenthrin 2EC LAWN DILUTION CHART											
Application	Application	Application Fluid Ounces (mL) of Omni Brand Bifenthrin 2EC diluted to the Volumes of Finished Spray									
Volume:	Rate:	1 Gallon		5 Gallons		10 Gallons		100 Gallons			
Gallons/	FI. Oz./	Fl. oz.	mL	Fl. oz.	mL	Fl. oz.	mL	Fl. oz.			
1000 sq. ft.	1000 sq. ft.										
1	0.05	0.05	1.48	0.25	7.39	0.50	14.8	5.00			
1	0.08	0.08	2.37	0.40	11.83	0.80	23.7	8.00			
1	0.16	0.16	4.73	0.80	23.66	1.60	47.3	16.00			
1	0.32	0.32	9.46	1.60	47.32	3.20	94.6	32.00			
2	0.05	0.025	0.74	0.13	3.70	0.25	7.4	2.50			
2	0.08	0.040	1.18	0.20	5.91	0.40	11.8	4.00			
2 2	0.16	0.080	2.37	0.40	11.83	0.80	23.7	8.00			
	0.32	0.160	4.73	0.80	23.66	1.60	47.3	16.00			
3	0.05	0.017	0.49	0.08	2.46	0.17	4.9	1.67			
3 3	0.08	0.027	0.79	0.13	3.94	0.27	7.9	2.67			
3	0.16	0.053	1.58	0.27	7.89	0.53	15.8	5.33			
3	0.32	0.107	3.15	0.53	15.77	1.07	31.5	10.67			
4	0.05	0.013	0.37	0.06	1.85	0.13	3.7	1.25			
4	0.08	0.020	0.59	0.10	2.96	0.20	5.9	2.00			
4	0.16	0.040	1.18	0.20	5.91	0.40	11.8	4.00			
4	0.32	0.080	2.37	0.40	11.83	0.80	23.7	8.00			
5	0.05	0.010	0.30	0.05	1.48	0.10	3.0	1.00			
5	0.08	0.016	0.47	0.08	2.37	0.16	4.7	1.60			
5	0.16	0.032	0.95	0.16	4.73	0.32	9.5	3.20			
5	0.32	0.064	1.89	0.32	9.46	0.64	18.9	6.40			
10	0.05	0.005	0.15	0.03	0.74	0.05	1.5	0.50			
10	0.08	0.008	0.24	0.04	1.18	0.08	2.4	0.80			
10	0.16	0.016	0.47	0.08	2.37	0.16	4.7	1.60			
10	0.32	0.032	0.95	0.16	4.73	0.32	9.5	3.20			

CONDITIONS OF SALE – LIMITED WARRANTY AND LIMITATIONS OF LIABILITIES AND REMEDIES

Read the Conditions of Sale – Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label must be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Agri-Enterprises, LLC d/b/a Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. To the extent consistent with applicable law, the company makes no other warranties or representations of any kind express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Agri-Enterprises, LLC d/b/a Helena Chemical Company's election, one of the following:

- 1. Refund of the purchase price paid by buyer or user for product bought, or
- 2. Replacement of the product used

To the extent consistent with applicable law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and use accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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